

AMENDMENTS TO THE CLAIMS

The following listing of the claims will replace all previous versions and listings of the claims.

Listing of Claims:

1.-25. (Cancelled)

26. (New) A method of transmitting information by a wireless communication device, the method comprising:

monitoring an energy level of a monitored frequency band of a selected frequency hopping pattern; and

transmitting data on a transmit frequency band of said selected frequency hopping pattern following a predetermined time delay if said energy level indicates a particular condition of said monitored frequency band.

27. (New) The method of Claim 26, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.

28. (New) The method of Claim 26, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.

29. (New) The method of Claim 26, further comprising:
continuing to transmit further data according to said selected frequency hopping pattern.

30. (New) The method of Claim 26, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.

31. (New) The method of Claim 26, further comprising:

selecting said selected frequency hopping pattern based on a determination of use of one or more frequency hopping patterns within a communication range of the wireless communication device.

32. (New) The method of Claim 31, wherein said determination is based on at least one process selected from the group consisting of: detecting one or more frequency hopping patterns; and receiving one or more notifications of frequency hopping patterns being used.

33. (New) The method of Claim 31, wherein said selecting said selected frequency hopping pattern comprises selecting a frequency hopping pattern that is being used within the communication range of the wireless communication device.

34. (New) A wireless transmitter apparatus comprising:

means for monitoring an energy level of a monitored frequency band of a selected frequency hopping pattern; and

means for transmitting data on a transmit frequency band of said selected frequency hopping pattern following a predetermined time delay if said energy level indicates a particular condition of said monitored frequency band.

35. (New) The apparatus of Claim 34, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.

36. (New) The apparatus of Claim 34, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.

37. (New) The apparatus of Claim 34, wherein said means for transmitting is further for continuing to transmit further data according to said selected frequency hopping pattern.

38. (New) The apparatus of Claim 34, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.

39. (New) The apparatus of Claim 34, further comprising:
means for selecting said selected frequency hopping pattern based on a determination of use of one or more frequency hopping patterns within a communication range of the wireless transmitter apparatus.
40. (New) The apparatus of Claim 39, wherein the means for selecting comprises:
means for determining use of one or more frequency hopping patterns within the communication range of the wireless transmitter apparatus, wherein said means for determining includes at least one means selected from the group consisting of: means for detecting one or more frequency hopping patterns; and means for receiving one or more notifications of frequency hopping patterns being used.
41. (New) The apparatus of Claim 39, wherein said means for selecting said selected frequency hopping pattern is to select a frequency hopping pattern that is being used within the communication range of the wireless communication device.
42. (New) A wireless communication device comprising:
a sensing module to monitor an energy level of a monitored frequency band of a selected frequency hopping pattern;
a timing controller coupled to the sensing module to provide an indication of said monitored frequency band to said sensing module, to receive one or more detection signals from said sensing module, and to determine if the one or more detection signals indicate that a particular condition has been satisfied by the monitored frequency band; and
a transmit module coupled to the timing controller to receive an indication to transmit data in a transmit frequency band of the selected frequency hopping pattern, wherein said indication is to be generated by the timing controller subsequent to the timing controller determining the particular condition has been satisfied by the monitored frequency band.

43. (New) The device of Claim 42, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.
44. (New) The device of Claim 42, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.
45. (New) The device of Claim 42, wherein said transmit module is further to continue to transmit further data according to said selected frequency hopping pattern.
46. (New) The device of Claim 42, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.
47. (New) The device of Claim 42, wherein said transmit module comprises:
a transmit buffer coupled to receive said indication from the timing controller; and
a transform device coupled to an output of said transmit buffer to process data from the output of the transmit buffer to provide an output signal.
48. (New) The device of Claim 47, wherein said transform device comprises an inverse fast Fourier transform (IFFT) device.
49. (New) The device of Claim 42, wherein said one or more detection signals comprise one or more signals indicating one or more transitions in an energy level of the monitored frequency band.
50. (New) The device of Claim 42, wherein said sensing module is further to sense the use of one or more frequency hopping patterns within a communication range of the device, and wherein the timing controller is to select said selected frequency hopping pattern based at least in part on one or more results obtained by the sensing module.
51. (New) The device of Claim 42, wherein said device further comprises:

a receive module to receive one or more notifications about use of one or more frequency hopping patterns within a communication range of said device;

wherein the timing controller is to select said selected frequency hopping pattern based at least in part on said one or more notifications.

52. (New) The device of Claim 42, wherein said selected frequency hopping pattern corresponds to a frequency hopping pattern in use within a communication range of said device.